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10/053,186	01/18/2002	Ryuichi Yoshida	15162/04260	2851
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SIDLEY AUSTIN BROWN & WOOD LLP 717 NORTH HARWOOD SUITE 3400 DALLAS, TX 75201			EXAMINER	
			AGUIRRECHEA, JAYDI A	
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			2834	

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Staminer	r		Application No.	Applicant(s)			
Jayd A. Aguirrechea 2834	Office Action Summary		10/053,186	YOSHIDA ET AL.			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION Extensions drave may be available under the provisions of 37 CFR 1 35(a). In no event, however, may a reply be timely rised after six (ii) MONTH(S) from the maining acts of this communication. Provisions of 37 CFR 1 35(a). In no event, however, may a reply be timely rised after six (ii) MONTH(S) from the maining acts of this communication. Provision of the provision			Examiner	Art Unit			
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15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) IDS 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:	2) Notice	of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Ir				

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Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the controller and drive controlling method for controlling the drive mechanism must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-13 are rejected under 35 U.S.C. 102(a) as being anticipated by Shinke et al (US 6051909).

Shinke et al. disclose a drive mechanism (10), comprising: an electromechanical transducer having a pair of ends in an extending and contracting direction; a drive member (16) fixed to one of the pair of ends of the electromechanical transducer; a driven member (12) which is driven by the drive member and which contacts fractionally (Column 4, lines 42-50)with the drive member under a predetermined frictional force exerting therebetween; and a controller (50) for supplying the electromechanical transducer with drive pulses, wherein the controller includes a driving circuit which generates a first set of the drive pulses for driving the driven

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members and includes a frictional force reducing circuit (53) which generates a second set of the drive pulses for reducing a frictional force exerting between the drive member and the driven member. (Figures 1, 2, 3)

- 4. With regards to claims 2 and 3, Shinke et al. discloses the drive pulses generated by the frictional force reducing circuit have sinusoidal waveforms. (Column 9 line 27- Column 10 line 5)
- 5. With regards to claims 6 and 7, Shinke discloses the claimed invention suitable for driving general fine machine devices such as drive units of an XY drive table, a photographing lens of a camera, a projecting lens of an overhead projector and the like. (Column 1, lines 3-5)
- 6. With regards to claims 9-11, Shinke et al. discloses the controlling method for the drive mechanism. (Figure 11)

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shinke et al. (US 6051909) in view of Yoshida (US 6512321).

Shinke et al. disclose the claimed invention except for the driving pulses supplied by the controller having rectangular waveforms, a lever using the claimed driving mechanism and the mechanism used in a shutter.

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9. With regards to claims 4, 5, 12 and 13 Yoshida discloses the rectangular waveforms (abstract) to cause the electromechanical conversion element to expand and contract at different speeds to thereby move the support member and the engaging member relative to each other. It would have been obvious to one skilled in the art at the time the invention was made to use the rectangular waveforms disclosed by Yoshida on the actuator disclosed by Shinke to cause the electromechanical conversion element to expand and contract at different speeds to thereby move the support member and the engaging member relative to each other.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaydi A. Aguirrechea whose telephone number is 703-305-2277. The examiner can normally be reached on M-Th 9-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

JAA

June 24, 2003

